

**RF Monolithics, Inc. Announces “Advances in SAW Technology”
by Darrell L. Ash**

March 13, 2000, Dallas, Texas - RF Monolithics, Inc. (RFM) today announced that the paper, “Advances in SAW Technology”, by Darrell L. Ash is now available on its website. This paper, first presented at Low Power Radio Association (LPRA) Radio Solutions 99, covers the co-existence of low power radio systems and the Trans European Trunked Radio (TETRA) system.

Surface-acoustic-wave (SAW) based low power receivers and transmitters allow the co-existence of low power radio systems and the TETRA system in the 433 MHz and 868 MHz bands. SAW filters in the RF front-end of such receivers provide the rejection needed to reduce intermodulation distortion, produced by this high power service, to acceptable levels while providing low insertion loss at the desired frequency and an average 700 kHz 3 dB bandwidth. This bandwidth accounts for the temperature variations of the SAW-based transmitters and receivers with enough bandwidth left over to allow data rates up to 115 Kb/s. These inexpensive, low power consumption SAW transmitters and receivers eliminate the need for PLL frequency synthesizers with their inherent high power consumption, spurious frequencies and fragile crystals. A recently introduced SAW-based transceiver, in miniature hybrid form, is designed to be the basis for low cost two-way short range communications in the crowded frequency spectrum of today’s world.

With detailed figures and information, this paper is a good technical resource. It contains up-to-date information with detailed figures. “Advances in SAW Technology” can be found at www.rfm.com/products/apnotes/lpra.pdf.

RFM manufactures and markets radio frequency (RF) components and subassemblies based on SAW technology. The company offers products in four rapidly growing areas: Low-Power Components, Virtual Wire® Radio Systems, Frequency Control Modules, and Filters. RFM has shipped over 245 million devices to a worldwide customer base. Today, the Company offers over 1000 resonators, filters, and related components and modules to OEMs in the computer, automotive, telecommunications, consumer, and industrial market segments worldwide. Visit RFM’s web site at <http://www.rfm.com>.

RFM’s headquarters are located at 4347 Sigma Road, Dallas, Texas 75244, telephone (972) 448-3700, toll-free (800) 704-6079, facsimile (972) 387-8148. The company’s stock is traded on the U.S. NASDAQ exchange (symbol: RFMI). RFM maintains sales offices in California, Georgia, and Minnesota as well as a European sales office in England.

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